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McAfee UTM Firewall
Quick Installation Guide

PCI Card Model SG640

McAfee®

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Introduction

This Quick Installation Guide walks you through the installation of your UTM Firewall device.

This guide is intended for anyone who needs to set up an SG640 McAfee UTM Firewall device.

You can find additional information at the following locations:

- **Help** – Help is built into the UTM Firewall Management Console. Click the Help icon in the upper right corner.
- **Support** – Visit mysupport.mcafee.com to find product documentation, announcements, and support.
- **Firmware updates** – Your device has been pre-programmed with firmware current at the time of manufacture. Should you want to upgrade the firmware, you can obtain the latest version for your device from my.securecomputing.com.

Product specifications

- **Power**: 100–240 V, 50–60 Hz, 0.52–0.21 A
- **Operating temperature**: 0º C to 40º C
- **Storage temperature**: –20º C to 70º C
- **Humidity**: 0 to 95%, non-condensing

Installation overview

Installing the UTM Firewall device into a well-planned network is quick and easy. However, network planning and design is outside the scope of this guide. Please take some time to plan your network prior to installing your UTM Firewall device.

The basic steps to set up the UTM Firewall device are:

1. *Unpack the device* (page 5)
2. *Install the UTM Firewall device in a PCI slot* (page 6)
3. *Connect the computer to the Web Management Console* (page 7)
4. *Set your password* (page 9)
5. *Configure network settings* (page 9)
6. *Register your UTM Firewall device* (page 14)

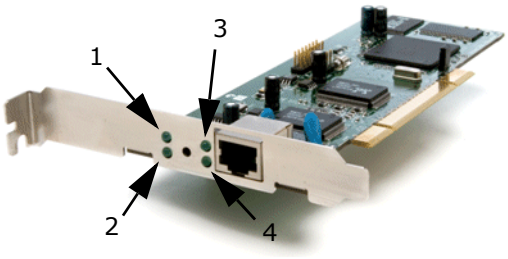
Before beginning this installation, ensure your computer is running Microsoft Windows (2000 or later). You should be logged in with administrator privileges.

Unpack the device

In addition to this document and the UTM Firewall PCI card, check that the UTM Firewall CD is included with your appliance.

The UTM Firewall PCI card has a single 10/100 network port, a Reset button, and four LEDs (light-emitting diodes); see Figure 1.

Figure 1 UTM Firewall PCI card



The LEDs provide information about the operating status of your UTM Firewall device. The two LEDs indicate:

1. power
2. heart beat
3. network link
4. network activity

The heart beat LED blinks when the UTM Firewall device is running. The power LED is ON when power is applied.

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Install the UTM Firewall device in a PCI slot

To install the UTM Firewall device:

1. Turn off the power to the host computer.
2. Remove the cover of the computer.
3. Locate an unused PCI slot on the computer, and insert the UTM Firewall device into it.
4. Replace the computer cover.
5. Turn on the computer. When Windows starts up, it automatically detects the UTM Firewall device (recognized as a Realtek RTL8139-series Fast Ethernet Adapter).
6. [Optional] Confirm that a new network adapter has been installed:
   a. Select **Start | Settings | Network and Dialup Connections | Local Area Connection** (possibly followed by a number) **| Properties**.
   b. Make sure that the new adapter is listed in the **Connect using** field.

Connect the computer to the Web Management Console

This process assumes that you are setting up your UTM Firewall device in bridged mode, sitting between your computer and the LAN, and transparently filtering network traffic.

NOTE: If you are setting up your UTM Firewall device in NAT (masquerading) mode, or connecting directly to your ISP, refer to the *McAfee UTM Firewall Administration Guide*, which is included on the UTM Firewall CD (*doc**UserManual.pdf*).

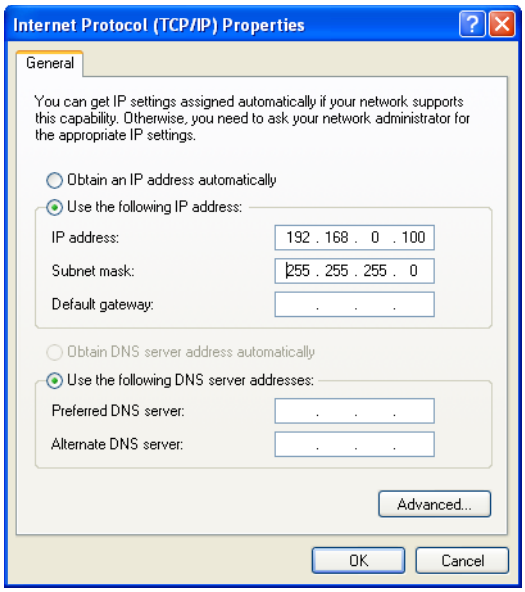
The UTM Firewall device ships with the following initial network settings:

- IP address – **192.168.0.1**
- Subnet mask – **255.255.255.0**

To set up communication between UTM Firewall and your computer, modify your network settings:

1. From the **Start** menu, open the **Control Panel**, and double-click **Network Connections**.
2. Right-click **Local Area Connection** (or the appropriate network connection for the newly installed PCI appliance) icon, and select **Properties**.
3. Select **Internet Protocol (TCP/IP)**, and click **Properties**.
4. Select **Use the following IP address** (Figure 2).

Figure 2 Internet Protocol Properties window


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 100
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

5 Enter the following details:
   - IP address – **192.168.0.100**
   - Subnet mask – **255.255.255.0**

6 Leave the Default gateway and DNS server addresses blank.

Set your password

1 Launch your web browser, and navigate to **192.168.0.1**.

2 On the management console, select **Network Setup** from the Network Setup menu. A login window displays.

3 Enter the initial user name and password for the UTM Firewall device:

- User name – **root**
- Password – **default**

NOTE: If you cannot connect to the management console at 192.168.0.1, or if the initial user name and password are not accepted, reset the UTM Firewall device to its factory default settings. Press the **Reset** button on the UTM Firewall device's front panel twice within two seconds, wait 20 to 30 seconds, and try connecting again.

4 Enter and confirm a password for your UTM Firewall device. This is the password for the user *root*, the main administrator account on the UTM Firewall device. It is important that you choose an administrative password that is hard to guess, and that you keep the password secure.

The new password takes effect immediately.

Configure network settings

In the row labeled Bridge, click the **Modify** icon. This step configures the IP address for the Web Management Console. For convenience, this is generally an unallocated IP address on your LAN.

If your LAN has a DHCP server running, you can set up the UTM Firewall device and your computer to obtain their network settings automatically. Otherwise, you must manually specify network settings for both the UTM Firewall device and your computer.

- To obtain network settings automatically, proceed to *Automatically configure network settings* on page 10.
- To manually specify the network setting, proceed to *Manually configure network settings* on page 12.

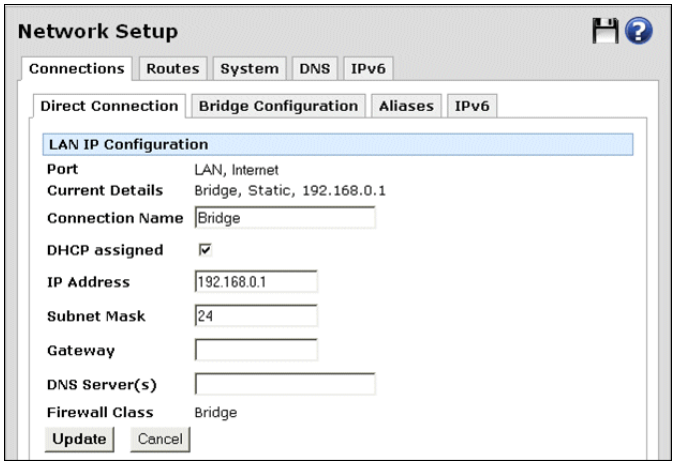
Automatically configure network settings

Before continuing, ensure that your DHCP server has two leases available. One lease will be used for the Web Management Console, and the other will be used for your computer.

NOTE: It is strongly recommended that you reserve the IP address to be used by the Web Management Console using the UTM Firewall device MAC address. In bridged mode, this is the top MAC address of the three displayed on the UTM Firewall device itself.

1 From the Network Setup page, click the **Connections** tab, then select the **DHCP assigned** checkbox (Figure 3). Information in the IP Address and Subnet Mask fields will be ignored.

Figure 3 Connections tab



2 Click **Update**.

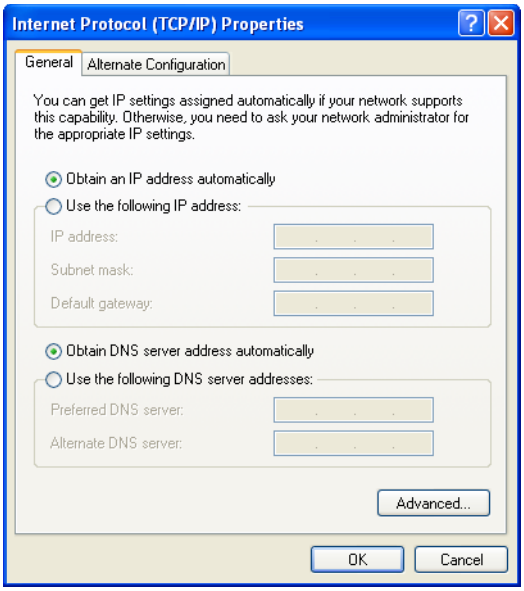
3 From the **Start** menu, select **Control Panel**, then double-click **Network Connections**.

4 Right-click the **Local Area Connection** icon (or appropriate network connection for the newly installed PCI appliance), and select **Properties**.

5 Select **Internet Protocol (TCP/IP)**, then click **Properties**.

6 On the General tab, select **Obtain an IP address automatically** (Figure 4).

Figure 4 Internet Protocol Properties window


Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

7 Select **Obtain DNS server address automatically**.

8 Click **OK**.

9 Attach your UTM Firewall device Ethernet port to your LAN hub or switch. This completes the quick setup.

Manually configure network settings

Before continuing, ensure that you have two IP addresses available that are part of the subnet range of your LAN. You will need the following information:

- LAN subnet mask
- DNS server address used by computers on your LAN
- Gateway address used by computers on your LAN

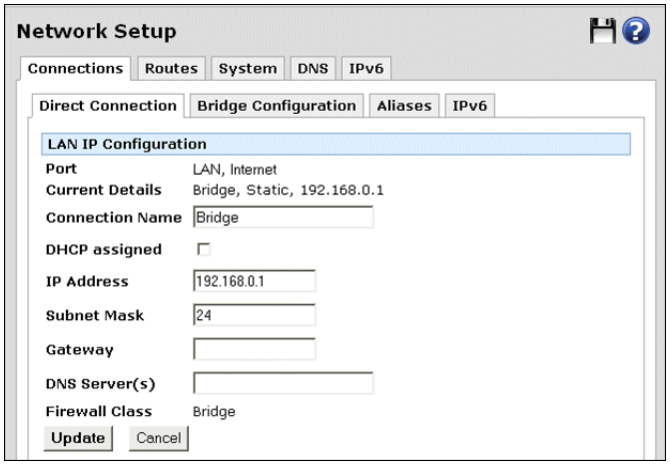
Contact your network administrator if you are unsure of these settings.

1 Enter IP address details for the Web Management Console.

a From the Network Setup page, select the **Connections** tab.

b Enter the IP Address that will be used by the Web Management Console in the **IP Address** field (Figure 5).

Figure 5 Connections tab



c Enter your LAN's subnet mask in the **Subnet Mask** field.

d Confirm that the **DHCP assigned** checkbox is deselected.

e [Optional] Enter one or more DNS server(s) and a gateway address to be used by the UTM Firewall device, not your computer, for access to the Internet. Typically, this is not necessary as only your computer needs to access the Internet.

f Click **Update**.

2 Enter IP address details for your computer.

a From the **Start** menu, select **Control Panel**, then double-click **Network Connections**.

b Right-click the **Local Area Connection** icon (or appropriate network connection for the newly installed PCI appliance), and select **Properties**.

c Select **Internet Protocol (TCP/IP)**, then click **Properties**.

d Enter the following details:

- **IP address** – The second free IP address that is part of the subnet range of your LAN
- **Subnet mask** – The subnet mask of your LAN
- **Default gateway** – The IP address of your LAN default gateway
- **Preferred DNS server** – The IP address of the DNS server used by computers on your LAN

e Click **OK**.

3 Attach your UTM Firewall device Ethernet port to your LAN hub.

Register your UTM Firewall device

You must register your UTM Firewall in order to receive technical support. A current email address is required to register your product. For prompt product registration, go to my.securecomputing.com.

Step-by-step procedures for registering your device and activating add-on features are provided in the *McAfee UTM Firewall Administration Guide.*

This completes the setup of your UTM Firewall.

Advanced configurations

To configure more sophisticated security settings and networking features such as VPN, use the menu in the UTM Firewall Web Management Console. Refer to the *McAfee UTM Firewall Administration Guide,* the Help, and the KnowledgeBase for further configuration information.

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15 **Free Software.** This product includes or may include some software programs that are licensed (or sublicensed) to the user under the GNU General Public License (GPL) or other similar software licenses which, among other rights, permit the user to copy, modify and redistribute certain programs, or portions thereof, and have access to the source code. The GPL requires that for any software covered under the GPL, which is distributed to someone in an executable binary format that the source code also be made available to those users. For any such software, the source code is made available in a designated directory created by installation of the Software or designated internet page. If any Free Software licenses require that McAfee provide rights to use, copy or modify a software program that are broader than the rights granted in this agreement, then such rights shall take precedence over the rights and restrictions herein.

16 **Privacy.** By entering into this Agreement, you agree that McAfee may collect, retain and use your personal information, including your name, address, e-mail address, and payment details. Your personal information will be used primarily to provide services and product functionality to you. McAfee may also use your personal information for additional communication with you, subject to your decision not to accept such communications from McAfee and subject to applicable laws. McAfee engages other companies and individuals ("subcontractors") to

perform functions on its behalf, such as payment processing, order fulfillment, marketing programs and customer service. McAfee may share your information with such subcontractors in order to perform these and other functions, but such subcontractors may not use your personal information for other purposes, unless you agree. By entering into this Agreement, you agree to the transfer of your personal information to McAfee offices in the United States, for the purposes stated above. For more detailed information on the collection, use and transfer of your personal information, and for information on how to opt out of or unsubscribe from the communications described above, please read the McAfee privacy policy on the McAfee web site (www.mcafee.com).

17 **Audit**. McAfee may, at its expense and upon reasonable notice to customer during standard business hours audit customer with respect to its compliance with the terms of this Agreement. Customer understands and acknowledges that McAfee utilizes a number of methods to verify and support software use by its customers. These methods may include technological features of the McAfee software that prevent unauthorized use and provide software deployment verification. Upon reasonable request, customer will provide a system generated report verifying customer's software deployment, such request to occur no more than four (4) times per year. In the event that McAfee requires a physical audit, such audit shall be preceded by thirty (30) days written notice and shall occur no more than once per year unless otherwise required for compliance with the Sarbanes-Oxley Act.

18 **Auto-Boot /Post Boot Mode**. McAfee shall have no liability to you for any damages resulting from the use of the Software in the "auto-boot" or "post-boot" mode. You are advised that such tools are designed for product deployment purposes only, and any other use does not provide adequate data security. Any such contrary use shall be at your sole risk. Moreover, in the event of a data breach resulting from such contrary use, you shall not publicize McAfee's name in connection with such breach, nor make any statements that unfairly disparage the reputation of McAfee products.

19 **Miscellaneous.** This Agreement sets forth all rights for the user of the Software and is the entire Agreement between the parties. This Agreement supersedes any other communications, representations or advertising relating to the Software and Documentation. This Agreement may not be modified except by a written addendum issued by a duly authorized representative of McAfee. No provision hereof shall be deemed waived unless such waiver shall be in writing and signed by McAfee. If any provision of this Agreement is held invalid, the remainder of this Agreement shall continue in full force and effect.

20 **McAfee Customer Contact**. If you have any questions concerning these terms and conditions, or if you would like to contact McAfee for any other reason, please call (866) 736-3971 or (800) 338-8754, or write: McAfee, Inc., Attention: Customer Service, 5000 Headquarters Drive, Plano, TX 75024, or e-mail us by visiting service.mcafee.com.